

Chemical Analysis Report

NW-DIST-2022-06-15-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Niceville Run**
Request ID: **RQ-2022-05-09-29**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 07-JUL-2022 12:08

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Unnamed Lake

Collection Date/Time: 06/13/2022 10:40

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334558	DEP SOP: NU-094-1	Color (true)**	20	Q	PCU	P415234	
	EPA 180.1 Rev. 2.0	Turbidity	1.3	Q	NTU	P415258	
	EPA 300.0 Rev. 2.1	Chloride	6.4		mg Cl/L	P415804	
		Sulfate	3.7		mg SO4/L	P415806	
	SM 2320 B-2011	Total Alkalinity	6.2		mg CaCO3/L	P415749	
	SM 2540 C-2011	TDS	35		mg/L	P415657	
	SM 2540 D-2011	TSS	3	I	mg/L	P415649	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P415753	
2334559	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P415641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P415536	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P416000	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P415571	
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P415461	

Ref. Method and Comment:

DEP SOP: NU-094-1: The sample expired upon receipt.

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Shaw Still Branch Upstream E College Blvd.

Collection Date/Time: 06/13/2022 11:05

Field ID: G3NW0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334556	DEP SOP: NU-094-1	Color (true)**	6.6	Q	PCU	P415234	
	EPA 180.1 Rev. 2.0	Turbidity	0.15	IQ	NTU	P415258	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P415545	
		Sulfate	13		mg SO4/L	P415548	
	SM 2320 B-2011	Total Alkalinity	40		mg CaCO3/L	P415749	
	SM 2540 C-2011	TDS	92		mg/L	P415657	
	SM 2540 D-2011	TSS	2	U	mg/L	P415649	
2334557	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P415753	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P415641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P415406	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.4		mg N/L	P416000	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P415571	
2334573	SM 5310 B-2011	Organic Carbon	2.1		mg C/L	P415461	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P415176	
		Acesulfame K	0.10	U	ug/L	P415164	
		2,4,5-T	0.0040	U	ug/L	P415176	
		AMPA	0.10	U	ug/L	P415164	
		Acetaminophen	0.0080	U	ug/L	P415176	
		Acetamiprid	0.0020	U	ug/L	P415176	
		Endothall	0.25	U	ug/L	P415164	
		Glufosinate	0.10	U	ug/L	P415164	
		Glyphosate	0.10	U	ug/L	P415164	
		Afidopyropen	0.0020	U	ug/L	P415176	
		Bentazon	8.0E-04	U	ug/L	P415176	
		Sucralose	2.3		ug/L	P415164	
		Benzovindiflupyr	0.0020	U	ug/L	P415176	
		Carbamazepine	8.7E-04	I	ug/L	P415176	
		Clothianidin	0.0020	U	ug/L	P415176	
		Dinotefuran	0.0034	I	ug/L	P415176	
		Diuron	0.0020	U	ug/L	P415176	
		Fenuron	0.032	U	ug/L	P415176	
		Fluridone	8.0E-04	U	ug/L	P415176	
		Imazapyr	0.018		ug/L	P415176	
		Hydrocodone	0.0020	U	ug/L	P415176	
		Ibuprofen	0.080	U	ug/L	P415176	
		Imidacloprid	0.0020	U	ug/L	P415176	
		Linuron	0.0040	U	ug/L	P415176	
		Mandestrobin	0.0020	U	ug/L	P415176	
		MCP	0.0040	U	ug/L	P415176	
		Naproxen	0.0080	U	ug/L	P415176	
		Primidone	0.0040	U	ug/L	P415176	
		Pyraclostrobin	0.0020	U	ug/L	P415176	
		Silvex	0.0040	U	ug/L	P415176	
		Thiamethoxam	0.0020	U	ug/L	P415176	

Field ID: G3NW0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334573	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P415176	
		Triclopyr	0.0040	U	ug/L	P415176	

Ref. Method and Comment:
DEP SOP: NU-094-1: The sample expired upon receipt.
EPA 180.1 Rev. 2.0: The sample expired upon receipt.
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Direct Runoff to Choctawhatchee Bay Below Oregon Drive

Collection Date/Time: 06/13/2022 11:45

Field ID: G3NW0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334560	DEP SOP: NU-094-1	Color (true)**	68		PCU	P415234	
	EPA 180.1 Rev. 2.0	Turbidity	6.8	Q	NTU	P415258	
	EPA 300.0 Rev. 2.1	Chloride	11	A	mg Cl/L	P415804	
		Sulfate	6.8	A	mg SO4/L	P415806	
	SM 2320 B-2011	Total Alkalinity	60		mg CaCO3/L	P415749	
	SM 2540 C-2011	TDS	110		mg/L	P415657	
	SM 2540 D-2011	TSS	2	I	mg/L	P415649	
	SM 4500-F- C-2011	Fluoride	0.067	I	mg F/L	P415753	
2334561	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P415825	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P415783	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P415661	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P415571	
	SM 5310 B-2011	Organic Carbon	7.6		mg C/L	P415461	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Gap Creek South of Gail La Rue Cul-de-sac

Collection Date/Time: 06/13/2022 12:45

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334571	EPA 8321B	Aldicarb	0.020	U	ug/L	P415351	
		Aldicarb Sulfone	0.0020	U	ug/L	P415351	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P415351	
		Carbaryl	0.0020	U	ug/L	P415351	
		Carbofuran	0.0020	U	ug/L	P415351	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P415351	
		Methiocarb	0.0020	U	ug/L	P415351	
		Methomyl	0.0020	U	ug/L	P415351	
		Oxamyl	0.0020	U	ug/L	P415351	
		Propoxur	0.0020	U	ug/L	P415351	
2334572		2,4-D	0.0029	I	ug/L	P415176	
		Acesulfame K	0.10	U	ug/L	P415164	
		2,4,5-T	0.0040	U	ug/L	P415176	
		AMPA	0.10	U	ug/L	P415164	
		Acetaminophen	0.0080	U	ug/L	P415176	
		Acetamiprid	0.0020	U	ug/L	P415176	
		Endothall	0.25	U	ug/L	P415164	
		Glufosinate	0.10	U	ug/L	P415164	
		Glyphosate	0.10	U	ug/L	P415164	
		Afidopyropen	0.0020	U	ug/L	P415176	
		Bentazon	8.0E-04	U	ug/L	P415176	
		Sucralose	0.076		ug/L	P415164	
		Benzovindiflupyr	0.0020	U	ug/L	P415176	
		Carbamazepine	8.0E-04	U	ug/L	P415176	
		Clothianidin	0.0020	U	ug/L	P415176	
		Dinotefuran	0.0020	U	ug/L	P415176	
		Diuron	0.0020	U	ug/L	P415176	
		Fenuron	0.032	U	ug/L	P415176	
		Fluridone	8.0E-04	U	ug/L	P415176	
		Imazapyr	0.0059	I	ug/L	P415176	
		Hydrocodone	0.0020	U	ug/L	P415176	
		Ibuprofen	0.080	U	ug/L	P415176	
		Imidacloprid	0.014		ug/L	P415176	
		Linuron	0.0040	U	ug/L	P415176	
		Mandestrobin	0.0020	U	ug/L	P415176	
		MCPP	0.0072	I	ug/L	P415176	
		Naproxen	0.0080	U	ug/L	P415176	
		Primidone	0.0040	U	ug/L	P415176	
		Pyraclostrobin	0.0020	U	ug/L	P415176	
		Silvex	0.0040	U	ug/L	P415176	
		Thiamethoxam	0.0020	U	ug/L	P415176	
		Tolfenpyrad	0.0020	U	ug/L	P415176	
		Triclopyr	0.0040	U	ug/L	P415176	
2334574	EPA 8270E	Aldrin	0.72	U	ng/L	P415326	

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334574	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P415326	MS
		Alpha-Chlordane	0.22	U	ng/L	P415326	
		PCB-1016	2.2	UJ	ng/L	P415326	SUR
		Beta-BHC	0.11	U	ng/L	P415326	
		PCB-1221	2.2	UJ	ng/L	P415326	SUR
		Beta-Cyfluthrin**	1.4	U	ng/L	P415326	
		PCB-1232	2.2	UJ	ng/L	P415326	SUR
		Bifenthrin**	0.55	U	ng/L	P415326	
		PCB-1242	2.2	UJ	ng/L	P415326	SUR
		PCB-1248	2.2	UJ	ng/L	P415326	SUR
		Chlorothalonil	1.4	U	ng/L	P415326	
		PCB-1254	2.2	UJ	ng/L	P415326	SUR
		Cis-Nonachlor**	0.22	U	ng/L	P415326	
		PCB-1260	2.2	UJ	ng/L	P415326	SUR
		Cypermethrin	1.7	U	ng/L	P415326	
		Dacthal**	0.17	U	ng/L	P415326	
		DDD-p,p'	0.28	U	ng/L	P415326	
		DDE-p,p'	0.22	U	ng/L	P415326	
		DDT-p,p'	0.28	U	ng/L	P415326	
		Delta-BHC	0.44	UJ	ng/L	P415326	LCS
		Deltamethrin**	1.4	U	ng/L	P415326	
		Dichlobenil**	0.28	U	ng/L	P415326	
		Dicofol	1.4	U	ng/L	P415326	
		Dieldrin	0.46	I	ng/L	P415326	
		Endosulfan I	0.44	U	ng/L	P415326	MS
		Endosulfan II	0.44	U	ng/L	P415326	
		Endosulfan Sulfate	0.33	U	ng/L	P415326	
		Endrin	0.44	U	ng/L	P415326	
		Endrin Aldehyde	0.83	U	ng/L	P415326	
		Endrin Ketone	0.44	U	ng/L	P415326	
		Esfenvalerate**	0.83	U	ng/L	P415326	
		Ethalfuralin**	0.17	U	ng/L	P415326	MS
		Fenpropathrin**	0.28	U	ng/L	P415326	MS
		Gamma-BHC	0.14	UJ	ng/L	P415326	LCS
		Gamma-Chlordane	0.22	U	ng/L	P415326	
		Heptachlor	0.22	U	ng/L	P415326	
		Heptachlor Epoxide	0.28	U	ng/L	P415326	
		Hexachlorobenzene**	1.1	U	ng/L	P415326	
		Kepone**	5.5	U	ng/L	P415326	
		Lambda-Cyhalothrin**	0.83	U	ng/L	P415326	
		Methoprene**	0.83	U	ng/L	P415326	
		Methoxychlor	0.33	U	ng/L	P415326	
		MGK-264**	0.22	U	ng/L	P415326	
		Mirex	0.77	U	ng/L	P415326	
		Oxychlordane**	0.33	U	ng/L	P415326	MS

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334574	EPA 8270E	Permethrin	1.8	U	ng/L	P415326	
		Phenothrin**	0.99	U	ng/L	P415326	
		Piperonyl Butoxide**	0.17	U	ng/L	P415326	
		Prallethrin**	2.2	U	ng/L	P415326	
		Tau-Fluvalinate**	0.28	U	ng/L	P415326	
		Tetramethrin**	0.83	U	ng/L	P415326	MS
		Trans-Nonachlor**	0.22	U	ng/L	P415326	
		Triclosan Methyl**	0.17	U	ng/L	P415326	
		Trifluralin	0.22	U	ng/L	P415326	MS
		Chlordane	2.8	U	ng/L	P415326	
2334575	EPA 8270E	Toxaphene	17	UJ	ng/L	P415326	LCS
		Oxybenzone**	10	U	ng/L	P415327	
		Acetochlor	0.25	U	ng/L	P415327	
		Octinoxate**	50	IJ	ng/L	P415327	LCS
		Alachlor	0.25	U	ng/L	P415327	
		Avobenzone**	100	U	ng/L	P415327	
		Ametryn	0.61	U	ng/L	P415327	
		Atrazine	5.3		ng/L	P415327	
		PBDE-47**	4.0	U	ng/L	P415327	
		Atrazine Desethyl	1.5	U	ng/L	P415327	
		PBDE-99**	5.0	U	ng/L	P415327	
		Azinphos Methyl	2.0	U	ng/L	P415327	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P415327	
		Azoxystrobin**	0.50	U	ng/L	P415327	
		Bromacil	0.50	U	ng/L	P415327	
		2-Ethylhexyl	12	U	ng/L	P415327	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.40	U	ng/L	P415327	
		Caffeine**	13	I	ng/L	P415327	
		Carbophenothion	0.20	U	ng/L	P415327	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415327	
		Chlorfenapyr**	0.18	U	ng/L	P415327	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415327	
		Chlorpyrifos Methyl	0.050	U	ng/L	P415327	
		Coumaphos**	0.50	U	ng/L	P415327	
		Cyanazine	3.3	U	ng/L	P415327	
		Cyprodinil**	0.10	U	ng/L	P415327	
		Demeton	1.5	U	ng/L	P415327	
		Diazinon	0.13	U	ng/L	P415327	
		Difenoconazole**	0.61	U	ng/L	P415327	
		Dimethenamid**	0.10	U	ng/L	P415327	
		Dimethomorph**	0.18	U	ng/L	P415327	
		Disulfoton	0.50	U	ng/L	P415327	
		Dithiopyr**	0.40	I	ng/L	P415327	
		EPTC	1.3	U	ng/L	P415327	

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334575	EPA 8270E	Ethion	0.15	U	ng/L	P415327	RPD
		Ethoprop	0.10	U	ng/L	P415327	
		Etridiazole**	0.15	U	ng/L	P415327	
		Fenamiphos	0.50	U	ng/L	P415327	
		Fenbuconazole**	0.13	U	ng/L	P415327	
		Fipronil	0.30	I	ng/L	P415327	
		Fipronil DesulfinyI**	0.38	I	ng/L	P415327	
		Fipronil Sulfide	2.0		ng/L	P415327	
		Fipronil Sulfone	2.5		ng/L	P415327	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415327	
		Fludioxonil**	0.13	U	ng/L	P415327	
		Flumioxazin**	1.8	U	ng/L	P415327	
		Flutolanil**	0.12	I	ng/L	P415327	
		Fluxapyroxad**	0.10	U	ng/L	P415327	
		Fonofos	0.20	U	ng/L	P415327	
		Hexazinone	0.50	U	ng/L	P415327	
		Imazalil**	0.76	U	ng/L	P415327	
		Iprodione**	0.61	U	ng/L	P415327	
		Loratadine**	0.10	U	ng/L	P415327	
		Malathion	0.35	U	ng/L	P415327	
		Metalaxyl	0.76	U	ng/L	P415327	
		Metolachlor	0.83	I	ng/L	P415327	
		Metribuzin	2.5	U	ng/L	P415327	
		Mevinphos	1.1	U	ng/L	P415327	
		Molinate	0.30	U	ng/L	P415327	
		Myclobutanil**	0.25	U	ng/L	P415327	
		Naled**	1.5	UJ	ng/L	P415327	LCS, MS
		Napropamide**	0.40	U	ng/L	P415327	
		Norflurazon	0.50	U	ng/L	P415327	
		Oxadiazon	0.30	U	ng/L	P415327	
		Oxyfluorfen**	0.15	U	ng/L	P415327	
		Parathion Ethyl	0.25	U	ng/L	P415327	
		Parathion Methyl	0.55	U	ng/L	P415327	
		Pendimethalin	1.0	U	ng/L	P415327	
		Phenytol**	3.5	U	ng/L	P415327	
		Phorate	0.53	U	ng/L	P415327	
		Prodiamine**	0.18	U	ng/L	P415327	MS
		Prometon	0.91	U	ng/L	P415327	
		Prometryn	0.20	U	ng/L	P415327	
		Pronamide**	0.15	U	ng/L	P415327	
		Propanil**	0.13	U	ng/L	P415327	
		Propargite**	1.5	U	ng/L	P415327	
		Propiconazole**	0.51	I	ng/L	P415327	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415327	
		Pyridaben**	0.45	U	ng/L	P415327	

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2334575	EPA 8270E	Pyriproxyfen**	0.13	U	ng/L	P415327	MS
		Simazine	0.50	U	ng/L	P415327	
		Stirophos**	0.13	U	ng/L	P415327	
		Sulfentrazone**	5.7		ng/L	P415327	
		Tebuconazole**	0.50	U	ng/L	P415327	
		Terbufos	0.10	U	ng/L	P415327	
		Terbutylazine	0.43	U	ng/L	P415327	
		Thiobencarb**	0.61	U	ng/L	P415327	
		Triadimefon**	0.31	I	ng/L	P415327	
2334576	EPA 200.7 Rev. 4.4	Calcium	10.1		mg/L	P415274	
		Iron	990		ug/L	P415274	
		Magnesium	1.16		mg/L	P415274	
		Potassium	0.81	I	mg/L	P415274	
		Sodium	7.6		mg/L	P415274	
		Strontium	47.6		ug/L	P415274	
		Tin	3.0	U	ug/L	P415274	
		Titanium	2.0	I	ug/L	P415274	
		Vanadium	2.0	U	ug/L	P415274	
		Zinc	5.0	U	ug/L	P415274	
	EPA 200.8 Rev. 5.4	Aluminum	309		ug/L	P415274	
		Antimony	0.065	I	ug/L	P415274	
		Arsenic	1.18		ug/L	P415274	
		Barium	10.8		ug/L	P415274	
		Beryllium	0.011	I	ug/L	P415274	
		Boron**	28.3		ug/L	P415274	
		Cadmium	0.020	U	ug/L	P415274	
		Chromium	0.56	I	ug/L	P415274	
		Cobalt	0.10		ug/L	P415274	
		Copper	0.46	I	ug/L	P415274	
	SM 2340 B-2011	Lead	0.40		ug/L	P415274	
		Manganese	16.0		ug/L	P415274	
		Molybdenum	0.15	U	ug/L	P415274	
		Nickel	0.50	U	ug/L	P415274	
		Selenium	0.20	U	ug/L	P415274	
		Silver	0.010	U	ug/L	P415274	
		Thallium	0.10	U	ug/L	P415274	
		Hardness	30.1		mg/L	P415274	

Ref. Method and Comment:

EPA 8270E: MS accuracy for kepone not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415234

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415258

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415274

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415545

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415548

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415804

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415806

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415641

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415825

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415406

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415536

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415783

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415661

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416000

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415571

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P415326

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415326

Component	Result	Code	Units
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415326

Component	Result	Code	Units
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P415327

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415327

Component	Result	Code	Units
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415327

Component	Result	Code	Units
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415327

Component	Result	Code	Units
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stiophos	0.12	U	ng/L
Stiophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P415326

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P415164

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P415176

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P415351

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P415351

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P415749

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P415657

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415649

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415753

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415461

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P415234

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.4		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.8		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	80 - 120
Iron	105		P	80 - 120
Magnesium	106		P	80 - 120
Potassium	103		P	80 - 120
Sodium	105		P	80 - 120
Strontium	103		P	80 - 120
Tin	100		P	80 - 120
Titanium	104		P	80 - 120
Vanadium	97.9		P	80 - 120
Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.5		P	85 - 115
Antimony	98.4		P	85 - 115
Arsenic	100		P	85 - 115
Barium	103		P	85 - 115
Beryllium	95.9		P	85 - 115
Boron	102		P	85 - 115
Cadmium	97.8		P	85 - 115
Chromium	96.2		P	85 - 115
Cobalt	99.6		P	85 - 115
Copper	97.0		P	85 - 115
Lead	98.3		P	85 - 115
Manganese	96.7		P	85 - 115
Molybdenum	98.8		P	85 - 115
Nickel	99.1		P	85 - 115
Selenium	96.7		P	85 - 115
Silver	102		P	85 - 115
Thallium	99.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415545

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.2		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415804

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415641

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415406

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415536

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415783

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415661

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	102		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P415326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	75.8		P	10 - 93.0
Alpha-BHC	106		P	75 - 106
Alpha-Chlordane	84.3		P	50 - 109
Beta-BHC	138		P	36 - 138
Beta-Cyfluthrin	102		P	23 - 167
Bifenthrin	72.7		P	11 - 123
Chlorothalonil	96.8		P	27 - 190
Cis-Nonachlor	62.0		P	40 - 111
Cypermethrin	100		P	25 - 155
Dacthal	116		P	72 - 119
DDD-p,p'	71.9		P	47 - 108
DDE-p,p'	92.1		P	48 - 107
DDT-p,p'	85.4		P	49 - 111
Delta-BHC	140		F	54 - 138
Deltamethrin	109		P	22 - 189
Dichlobenil	105		P	32 - 113
Dicofol	85.9		P	50 - 108
Dieldrin	92.3		P	56 - 110
Endosulfan I	89.0		P	60 - 105
Endosulfan II	99.4		P	50 - 120
Endosulfan Sulfate	106		P	55 - 121
Endrin	82.8		P	31 - 119
Endrin Aldehyde	85.1		P	36 - 116
Endrin Ketone	118		P	69 - 177
Esfenvalerate	91.9		P	10 - 179
Ethalfuralin	90.3		P	49 - 99.0
Fenpropathrin	90.8		P	35 - 119
Gamma-BHC	121		F	69 - 120
Gamma-Chlordane	87.1		P	45 - 107
Heptachlor	78.9		P	41 - 100
Heptachlor Epoxide	92.6		P	58 - 106
Hexachlorobenzene	81.5		P	39 - 100
Kepone	96.5		P	10 - 191
Lambda-Cyhalothrin	79.7		P	21 - 206
Methoprene	71.0		P	10 - 129
Methoxychlor	100		P	61 - 111
MGK-264	107		P	20 - 123
Mirex	64.9		P	10 - 182
Oxychlordane	92.8		P	39 - 110
PCB-1016	96.4		P	49 - 111

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1260	107		P	42 - 116
Permethrin	95.7		P	26 - 152
Phenothrin	77.7		P	10 - 109
Piperonyl Butoxide	117		P	19 - 147
Prallethrin	99.9		P	14 - 109
Tau-Fluvalinate	74.8		P	16 - 134
Tetramethrin	124		P	10 - 125
Trans-Nonachlor	81.9		P	45 - 107
Triclosan Methyl	86.4		P	60 - 110
Trifluralin	87.1		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P415327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	103		P	50 - 150
Acetochlor	97.6		P	70 - 121
Alachlor	92.5		P	68 - 119
Ametryn	97.4		P	64 - 139
Atrazine	100		P	76 - 120
Atrazine Desethyl	68.9		P	44 - 126
Avobenzone	103		P	76 - 212
Azinphos Methyl	127		P	43 - 192
Azoxystrobin	102		P	36 - 224
Bromacil	84.6		P	52 - 121
Butylate	67.8		P	28 - 91.0
Caffeine	87.9		P	50 - 134
Carbophenothion	100		P	56 - 129
Carfentrazone Ethyl	110		P	60 - 141
Chlorfenapyr	92.1		P	56 - 115
Chlorpyrifos Ethyl	100		P	60 - 118
Chlorpyrifos Methyl	101		P	68 - 119
Coumaphos	104		P	18 - 250
Cyanazine	129		P	61 - 250
Cyprodinil	96.0		P	55 - 145
Demeton	80.5		P	30 - 159
Diazinon	95.6		P	70 - 123
Difenoconazole	132		P	49 - 204
Dimethenamid	78.7		P	64 - 115
Dimethomorph	92.8		P	12 - 219
Disulfoton	81.8		P	44 - 125
Dithiopyr	88.0		P	64 - 115
EPTC	66.5		P	28 - 86.0
Ethion	96.3		P	33 - 125
Ethoprop	87.9		P	64 - 116
Etridiazole	69.1		P	34 - 91.0
Fenamiphos	101		P	12 - 127
Fenbuconazole	94.8		P	59 - 151
Fipronil	99.1		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	87.4		P	61 - 116
Fipronil Sulfone	93.0		P	55 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluazifop-P-butyl	98.1		P	62 - 127
Fludioxonil	93.1		P	62 - 128
Flumioxazin	142		P	33 - 250
Flutolanil	95.3		P	56 - 127
Fluxapyroxad	77.7		P	45 - 128
Fonofos	90.5		P	62 - 111
Hexazinone	103		P	46 - 139
Imazalil	70.4		P	38 - 142
Iprodione	106		P	47 - 135
Loratadine	87.9		P	10 - 244
Malathion	105		P	61 - 139
Metalaxyl	95.4		P	10 - 119
Metolachlor	93.2		P	65 - 118
Metribuzin	94.6		P	51 - 250
Mevinphos	83.2		P	53 - 121
Molinate	75.8		P	42 - 96.0
Myclobutanil	95.6		P	55 - 128
Naled	113		F	10 - 98.0
Napropamide	85.7		P	49 - 121
Norflurazon	92.9		P	61 - 126
Octinoxate	206		F	30 - 159
Oxadiazon	80.4		P	59 - 116
Oxybenzone	78.7		P	61 - 139
Oxyfluorfen	129		P	64 - 137
Parathion Ethyl	105		P	70 - 112
Parathion Methyl	114		P	76 - 133
PBDE-47	90.9		P	50 - 150
PBDE-99	92.9		P	50 - 150
Pendimethalin	106		P	52 - 117
Phenytol	64.9		P	10 - 199
Phorate	81.4		P	48 - 121
Prodiamine	56.4		P	26 - 142
Prometon	71.8		P	43 - 123
Prometryn	89.2		P	66 - 127
Pronamide	93.0		P	75 - 121
Propanil	93.6		P	45 - 150
Propargite	92.9		P	42 - 208
Propiconazole	90.0		P	60 - 125
Pyraflufen Ethyl	91.4		P	70 - 138
Pyridaben	96.9		P	35 - 245
Pyriproxyfen	93.1		P	30 - 149
Simazine	82.7		P	72 - 125
Stirophos	97.7		P	29 - 164
Sulfentrazone	93.8		P	21 - 139
Tebuconazole	77.8		P	10 - 115
Terbufos	106		P	60 - 123
Terbutylazine	95.6		P	72 - 115
Thiobencarb	81.7		P	31 - 139
Tri-o-cresyl Phosphate	92.5		P	50 - 150
Triadimefon	92.1		P	65 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P415326

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	104		P	61 - 118
Toxaphene	132		F	51 - 122

Reference Method: EPA 8321B

Batch ID: P415164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	93.0		P	40 - 150
AMPA	111		P	40 - 150
Endothall	96.4		P	40 - 150
Glufosinate	100		P	40 - 150
Glyphosate	106		P	40 - 150
Sucralose	97.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	73.3		P	40 - 150
2,4,5-T	52.4		P	40 - 150
Acetaminophen	88.2		P	30 - 150
Acetamiprid	78.2		P	40 - 150
Afidopyropen	71.3		P	30 - 150
Bentazon	81.5		P	30 - 150
Benzovindiflupyr	83.8		P	40 - 150
Carbamazepine	95.2		P	40 - 150
Clothianidin	95.7		P	40 - 150
Dinotefuran	94.9		P	40 - 150
Diuron	81.7		P	40 - 150
Fenuron	89.8		P	40 - 150
Fluridone	81.4		P	40 - 150
Hydrocodone	90.9		P	40 - 150
Ibuprofen	89.3		P	40 - 150
Imazapyr	96.5		P	40 - 150
Imidacloprid	94.6		P	40 - 150
Linuron	70.8		P	40 - 150
Mandestrobin	83.4		P	40 - 150
MCPP	75.1		P	40 - 150
Naproxen	56.6		P	40 - 150
Primidone	93.5		P	40 - 150
Pyraclostrobin	74.0		P	40 - 150
Silvex	55.4		P	40 - 150
Thiamethoxam	87.8		P	40 - 150
Tolfenpyrad	49.1		P	30 - 150
Triclopyr	59.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	83.4		P	40 - 150
Aldicarb	71.5		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P415351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	88.4		P	40 - 150
Aldicarb Sulfoxide	87.6		P	40 - 150
Carbaryl	82.0		P	40 - 150
Carbofuran	81.6		P	40 - 150
Methiocarb	93.4		P	40 - 150
Methomyl	83.2		P	40 - 150
Oxamyl	89.2		P	40 - 150
Propoxur	73.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P415461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P415274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334062	Calcium	103		P	80 - 120
2334062	Iron	109	106	P/P	80 - 120
2334062	Magnesium	109	101	P/P	80 - 120
2334062	Potassium	104	105	P/P	80 - 120
2334062	Sodium	101	102	P/P	80 - 120
2334062	Strontium	102	103	P/P	80 - 120
2334062	Tin	99.2	102	P/P	80 - 120
2334062	Titanium	104	106	P/P	80 - 120
2334062	Vanadium	99.2	102	P/P	80 - 120
2334062	Zinc	100	103	P/P	80 - 120
2334379	Calcium	104		P	80 - 120
2334379	Iron	105		P	80 - 120
2334379	Magnesium	103		P	80 - 120
2334379	Potassium	105		P	80 - 120
2334379	Sodium	105		P	80 - 120
2334379	Strontium	104		P	80 - 120
2334379	Tin	101		P	80 - 120
2334379	Titanium	104		P	80 - 120
2334379	Vanadium	98.6		P	80 - 120
2334379	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334062	Aluminum	97.7	97.6	P/P	80 - 120
2334062	Antimony	99.7	101	P/P	80 - 120
2334062	Arsenic	99.0	99.5	P/P	80 - 120
2334062	Barium	104	104	P/P	80 - 120
2334062	Beryllium	93.7	95.3	P/P	80 - 120
2334062	Boron	101	102	P/P	80 - 120
2334062	Cadmium	99.4	99.2	P/P	80 - 120
2334062	Chromium	97.7	99.6	P/P	80 - 120
2334062	Cobalt	99.2	99.6	P/P	80 - 120
2334062	Copper	93.9	94.5	P/P	80 - 120
2334062	Lead	98.8	98.7	P/P	80 - 120
2334062	Manganese	98.6	98.4	P/P	80 - 120
2334062	Molybdenum	102	102	P/P	80 - 120
2334062	Nickel	96.5	96.5	P/P	80 - 120
2334062	Selenium	98.3	97.8	P/P	80 - 120
2334062	Silver	102	102	P/P	80 - 120
2334062	Thallium	101	102	P/P	80 - 120
2334379	Aluminum	95.9		P	80 - 120
2334379	Antimony	101		P	80 - 120
2334379	Arsenic	96.6		P	80 - 120
2334379	Barium	102		P	80 - 120
2334379	Beryllium	95.3		P	80 - 120
2334379	Boron	101		P	80 - 120
2334379	Cadmium	96.8		P	80 - 120
2334379	Chromium	97.8		P	80 - 120
2334379	Cobalt	94.8		P	80 - 120
2334379	Copper	90.5		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334379	Lead	97.6		P	80 - 120
2334379	Manganese	97.0		P	80 - 120
2334379	Molybdenum	97.8		P	80 - 120
2334379	Nickel	92.8		P	80 - 120
2334379	Selenium	95.0		P	80 - 120
2334379	Silver	101		P	80 - 120
2334379	Thallium	99.4		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334359	Chloride	97.6		P	90 - 110
2334556	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334359	Sulfate	97.1		P	90 - 110
2334556	Sulfate	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334560	Chloride	94.9		P	90 - 110
2334583	Chloride	94.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415806

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334560	Sulfate	94.8		P	90 - 110
2334583	Sulfate	95.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334469	Ammonia-N	95.6	94.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334561	Ammonia-N	97.4	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
---------------	-----------	---------	---------	-----------	----------------

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415406

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334054	Kjeldahl Nitrogen	94.2	90.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415661

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334591	NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334559	NO2NO3-N	96.5	92.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334559	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P415326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334860	Aldrin	81.3	82.2	P/P	10 - 89.0
2334860	Alpha-BHC	111	117	F/F	71 - 105
2334860	Alpha-Chlordane	95.8	95.2	P/P	43 - 107
2334860	Beta-BHC	135	132	P/P	57 - 152
2334860	Beta-Cyfluthrin	139	147	P/P	29 - 186
2334860	Bifenthrin	91.3	98.1	P/P	19 - 119
2334860	Chlorothalonil	195	184	P/P	10 - 245
2334860	Cis-Nonachlor	74.5	87.0	P/P	36 - 110
2334860	Cypermethrin	140	154	P/P	24 - 169
2334860	Dacthal	111	114	P/P	62 - 115
2334860	DDD-p,p'	81.2	94.7	P/P	36 - 109
2334860	DDE-p,p'	97.8	104	P/P	30 - 114
2334860	DDT-p,p'	90.6	93.4	P/P	42 - 108
2334860	Delta-BHC	157	156	P/P	60 - 164
2334860	Deltamethrin	169	186	P/P	10 - 210
2334860	Dichlobenil	90.4	92.0	P/P	23 - 108
2334860	Dicofol	81.9	87.4	P/P	44 - 109
2334860	Dieldrin	96.7	102	P/P	37 - 119
2334860	Endosulfan I	107	103	F/P	52 - 105
2334860	Endosulfan II	123	120	P/P	35 - 127
2334860	Endosulfan Sulfate	108	108	P/P	39 - 130
2334860	Endrin	95.4	95.6	P/P	30 - 116
2334860	Endrin Aldehyde	86.8	89.7	P/P	20 - 110
2334860	Endrin Ketone	112	112	P/P	48 - 134
2334860	Esfenvalerate	134	144	P/P	10 - 199
2334860	Ethalfuralin	97.0	100	F/F	48 - 95.0
2334860	Fenpropathrin	117	129	P/F	37 - 121
2334860	Gamma-BHC	121	118	P/P	61 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334860	Gamma-Chlordane	92.4	94.2	P/P	39 - 105
2334860	Heptachlor	83.6	81.4	P/P	38 - 96.0
2334860	Heptachlor Epoxide	103	102	P/P	42 - 114
2334860	Hexachlorobenzene	88.7	91.7	P/P	39 - 93.0
2334860	Lambda-Cyhalothrin	112	120	P/P	10 - 204
2334860	Methoprene	91.9	90.0	P/P	17 - 108
2334860	Methoxychlor	99.5	113	P/P	56 - 115
2334860	MGK-264	111	109	P/P	35 - 120
2334860	Mirex	79.0	79.0	P/P	10 - 178
2334860	Oxychlordane	89.3	99.0	P/F	47 - 91.0
2334860	Permethrin	132	133	P/P	27 - 170
2334860	Phenothrin	115	114	P/P	10 - 133
2334860	Piperonyl Butoxide	124	128	P/P	23 - 150
2334860	Prallethrin	105	110	P/P	21 - 113
2334860	Tau-Fluvalinate	109	120	P/P	16 - 158
2334860	Tetramethrin	158	157	F/F	22 - 132
2334860	Trans-Nonachlor	90.3	94.4	P/P	43 - 102
2334860	Triclosan Methyl	94.6	96.6	P/P	49 - 109
2334860	Trifluralin	91.1	96.7	P/F	48 - 93.0
2334871	PCB-1016	104	102	P/P	46 - 110
2334871	PCB-1260	110	101	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P415327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334212	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	105	102	P/P	50 - 150
2334212	Acetochlor	120	107	P/P	65 - 124
2334212	Alachlor	105	99.9	P/P	61 - 121
2334212	Ametryn	95.3	99.8	P/P	52 - 216
2334212	Atrazine Desethyl	50.7	47.0	P/P	15 - 160
2334212	Avobenzene	124	116	P/P	59 - 206
2334212	Azinphos Methyl	150	142	P/P	40 - 292
2334212	Azoxystrobin	127	114	P/P	12 - 242
2334212	Bromacil	106	84.2	P/P	54 - 167
2334212	Butylate	57.6	54.8	P/P	14 - 94.0
2334212	Caffeine	99.9	99.6	P/P	10 - 226
2334212	Carbophenothion	106	98.0	P/P	49 - 122
2334212	Carfentrazone Ethyl	118	101	P/P	53 - 138
2334212	Chlorfenapyr	83.5	73.1	P/P	50 - 150
2334212	Chlorpyrifos Ethyl	91.9	82.1	P/P	52 - 122
2334212	Chlorpyrifos Methyl	100	88.5	P/P	66 - 117
2334212	Coumaphos	102	88.3	P/P	50 - 220
2334212	Cyanazine	141	127	P/P	43 - 245
2334212	Cyprodinil	104	91.0	P/P	50 - 150
2334212	Demeton	95.9	83.9	P/P	43 - 188
2334212	Diazinon	122	111	P/P	69 - 131
2334212	Difenoconazole	169	148	P/P	34 - 231
2334212	Dimethenamid	98.2	87.7	P/P	55 - 118
2334212	Dimethomorph	115	107	P/P	50 - 150
2334212	Disulfoton	97.0	83.4	P/P	38 - 141
2334212	Dithiopyr	77.4	68.0	P/P	42 - 116

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334212	EPTC	52.7	51.4	P/P	18 - 85.0
2334212	Ethion	85.0	67.8	P/P	10 - 131
2334212	Ethoprop	99.3	89.2	P/P	65 - 129
2334212	Etridiazole	72.1	51.3	P/P	50 - 150
2334212	Fenamiphos	83.2	79.2	P/P	31 - 137
2334212	Fenbuconazole	116	99.4	P/P	57 - 160
2334212	Fipronil	117	103	P/P	62 - 132
2334212	Fipronil Desulfinyl	114	99.9	P/P	57 - 131
2334212	Fipronil Sulfide	92.4	81.5	P/P	15 - 138
2334212	Fipronil Sulfone	92.1	76.2	P/P	21 - 134
2334212	Fluazifop-P-butyl	108	95.7	P/P	54 - 133
2334212	Fludioxonil	115	101	P/P	58 - 127
2334212	Flumioxazin	191	165	P/P	33 - 300
2334212	Flutolanil	95.1	81.3	P/P	42 - 130
2334212	Fluxapyroxad	94.9	88.2	P/P	23 - 141
2334212	Fonofos	92.4	82.8	P/P	58 - 119
2334212	Hexazinone	101	92.3	P/P	68 - 172
2334212	Imazalil	92.8	92.2	P/P	48 - 283
2334212	Iprodione	119	104	P/P	38 - 140
2334212	Loratadine	102	94.0	P/P	50 - 150
2334212	Malathion	105	94.1	P/P	40 - 137
2334212	Metalaxyl	98.1	90.9	P/P	21 - 129
2334212	Metolachlor	107	98.4	P/P	55 - 122
2334212	Metribuzin	115	96.9	P/P	38 - 187
2334212	Mevinphos	95.4	81.1	P/P	54 - 134
2334212	Molinate	77.2	71.3	P/P	41 - 97.0
2334212	Myclobutanil	102	93.2	P/P	56 - 125
2334212	Naled	116	106	F/P	10 - 108
2334212	Napropamide	87.9	74.9	P/P	50 - 150
2334212	Norflurazon	102	84.0	P/P	32 - 122
2334212	Octinoxate	81.9	58.2	P/P	25 - 150
2334212	Oxybenzone	94.8	89.4	P/P	59 - 147
2334212	Oxyfluorfen	152	138	P/P	61 - 153
2334212	Parathion Ethyl	104	93.7	P/P	59 - 130
2334212	Parathion Methyl	124	109	P/P	65 - 155
2334212	PBDE-47	96.9	91.2	P/P	50 - 150
2334212	PBDE-99	95.6	90.5	P/P	50 - 150
2334212	Pendimethalin	118	105	P/P	49 - 138
2334212	Phenytoin	57.8	48.2	P/F	50 - 200
2334212	Phorate	92.2	80.9	P/P	54 - 161
2334212	Prodiamine	83.5	79.2	P/P	33 - 161
2334212	Prometon	76.5	68.7	P/P	48 - 140
2334212	Prometryn	78.8	68.0	P/P	55 - 134
2334212	Pronamide	115	102	P/P	66 - 137
2334212	Propanil	101	87.8	P/P	50 - 150
2334212	Propargite	83.6	76.8	P/P	50 - 200
2334212	Pyraflufen Ethyl	97.2	85.2	P/P	50 - 150
2334212	Pyridaben	103	96.5	P/P	50 - 200
2334212	Pyriproxyfen	93.6	87.2	P/P	10 - 165
2334212	Simazine	91.4	82.3	P/P	57 - 145
2334212	Stirophos	46.4	37.6	F/F	50 - 150
2334212	Sulfentrazone	112	97.4	P/P	34 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334212	Tebuconazole	89.2	76.6	P/P	10 - 127
2334212	Terbufos	120	104	P/P	59 - 138
2334212	Terbuthylazine	118	102	P/P	68 - 119
2334212	Thiobencarb	91.4	80.3	P/P	50 - 150
2334212	Tri-o-cresyl Phosphate	102	95.3	P/P	50 - 150
2334212	Triadimefon	98.5	85.6	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P415326

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334871	Chlordane	108	109	P/P	55 - 128
2334871	Toxaphene	154	158	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P415164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334210	Acesulfame K	89.0	90.7	P/P	40 - 150
2334210	AMPA	89.8	85.9	P/P	40 - 150
2334210	Endothall	99.8	98.0	P/P	40 - 150
2334210	Glufosinate	88.3	86.8	P/P	40 - 150
2334210	Glyphosate	95.9	93.1	P/P	40 - 150
2334210	Sucralose	95.6	97.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334060	2,4-D	96.5	89.1	P/P	40 - 150
2334060	2,4,5-T	57.6	56.6	P/P	40 - 150
2334060	Acetaminophen	102	99.5	P/P	30 - 150
2334060	Acetamiprid	78.9	83.7	P/P	40 - 150
2334060	Afidopyropen	73.1	76.6	P/P	30 - 150
2334060	Bentazon	81.7	79.2	P/P	30 - 150
2334060	Benzovindiflupyr	83.0	80.7	P/P	40 - 150
2334060	Carbamazepine	96.8	94.8	P/P	40 - 150
2334060	Clothianidin	98.0	107	P/P	40 - 150
2334060	Dinotefuran	101	101	P/P	40 - 150
2334060	Diuron	79.6	90.1	P/P	40 - 150
2334060	Fenuron	88.0	89.5	P/P	40 - 150
2334060	Fluridone	86.8	87.2	P/P	40 - 150
2334060	Hydrocodone	94.0	91.4	P/P	40 - 150
2334060	Ibuprofen	89.6	76.4	P/P	40 - 150
2334060	Imazapyr	93.4	98.0	P/P	40 - 150
2334060	Imidacloprid	101	88.4	P/P	40 - 150
2334060	Linuron	72.5	84.2	P/P	40 - 150
2334060	Mandestrobin	81.6	83.5	P/P	40 - 150
2334060	MCPP	80.9	84.0	P/P	40 - 150
2334060	Naproxen	103	89.8	P/P	40 - 150
2334060	Primidone	85.4	98.3	P/P	40 - 150
2334060	Pyraclostrobin	79.3	80.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P415176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334060	Silvex	61.9	61.7	P/P	40 - 150
2334060	Thiamethoxam	94.5	94.6	P/P	40 - 150
2334060	Tolfenpyrad	54.3	54.2	P/P	30 - 150
2334060	Triclopyr	65.1	68.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334630	3-Hydroxycarbofuran	86.0	85.4	P/P	40 - 150
2334630	Aldicarb	72.5	65.4	P/P	30 - 150
2334630	Aldicarb Sulfone	99.5	98.3	P/P	40 - 150
2334630	Aldicarb Sulfoxide	89.9	88.7	P/P	40 - 150
2334630	Carbaryl	85.0	88.2	P/P	40 - 150
2334630	Carbofuran	81.5	71.0	P/P	40 - 150
2334630	Methiocarb	88.3	87.0	P/P	40 - 150
2334630	Methomyl	87.3	84.5	P/P	40 - 150
2334630	Oxamyl	92.3	89.2	P/P	40 - 150
2334630	Propoxur	67.9	72.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P415753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334356	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P415461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334470	Organic Carbon	98.0	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334465	Color (true)	4.29	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334583	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334062	Calcium	1.52	Spike	P	0 - 20
2334062	Iron	3.00	Spike	P	0 - 20
2334062	Magnesium	4.21	Spike	P	0 - 20
2334062	Potassium	0.209	Spike	P	0 - 20
2334062	Sodium	0.357	Spike	P	0 - 20
2334062	Strontium	1.13	Spike	P	0 - 20
2334062	Tin	3.03	Spike	P	0 - 20
2334062	Titanium	2.17	Spike	P	0 - 20
2334062	Vanadium	2.43	Spike	P	0 - 20
2334062	Zinc	2.68	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334062	Aluminum	0.149	Spike	P	0 - 20
2334062	Antimony	1.19	Spike	P	0 - 20
2334062	Arsenic	0.577	Spike	P	0 - 20
2334062	Barium	0.249	Spike	P	0 - 20
2334062	Beryllium	1.57	Spike	P	0 - 20
2334062	Boron	1.61	Spike	P	0 - 20
2334062	Cadmium	0.182	Spike	P	0 - 20
2334062	Chromium	1.78	Spike	P	0 - 20
2334062	Cobalt	0.359	Spike	P	0 - 20
2334062	Copper	0.595	Spike	P	0 - 20
2334062	Lead	0.0892	Spike	P	0 - 20
2334062	Manganese	0.138	Spike	P	0 - 20
2334062	Molybdenum	0.544	Spike	P	0 - 20
2334062	Nickel	0.0953	Spike	P	0 - 20
2334062	Selenium	0.488	Spike	P	0 - 20
2334062	Silver	0.749	Spike	P	0 - 20
2334062	Thallium	0.423	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334359	Chloride	0.347	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334359	Sulfate	0.640	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334560	Chloride	0.0106	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334560	Sulfate	0.226	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334469	Ammonia-N	0.948	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334561	Ammonia-N	2.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415406

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334054	Kjeldahl Nitrogen	3.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333672	Kjeldahl Nitrogen	5.12	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415783

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334325	Kjeldahl Nitrogen	3.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334591	NO2NO3-N	1.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334559	NO2NO3-N	2.44	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334559	Total-P	1.04	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P415326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334860	Aldrin	1.08	Spike	P	0 - 37
2334860	Alpha-BHC	5.15	Spike	P	0 - 16
2334860	Alpha-Chlordane	0.618	Spike	P	0 - 28
2334860	Beta-BHC	2.55	Spike	P	0 - 32
2334860	Beta-Cyfluthrin	5.74	Spike	P	0 - 41
2334860	Bifenthrin	7.22	Spike	P	0 - 36
2334860	Chlorothalonil	5.70	Spike	P	0 - 54
2334860	Cis-Nonachlor	15.4	Spike	P	0 - 33
2334860	Cypermethrin	9.85	Spike	P	0 - 38
2334860	Dacthal	2.63	Spike	P	0 - 23
2334860	DDD-p,p'	15.3	Spike	P	0 - 35
2334860	DDE-p,p'	5.81	Spike	P	0 - 27
2334860	DDT-p,p'	3.10	Spike	P	0 - 31
2334860	Delta-BHC	0.499	Spike	P	0 - 30
2334860	Deltamethrin	9.55	Spike	P	0 - 76
2334860	Dichlobenil	1.82	Spike	P	0 - 33
2334860	Dicofol	6.50	Spike	P	0 - 24
2334860	Dieldrin	4.48	Spike	P	0 - 35
2334860	Endosulfan I	3.69	Spike	P	0 - 25
2334860	Endosulfan II	1.84	Spike	P	0 - 31
2334860	Endosulfan Sulfate	0.182	Spike	P	0 - 38
2334860	Endrin	0.243	Spike	P	0 - 53
2334860	Endrin Aldehyde	3.32	Spike	P	0 - 81

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P415326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334860	Endrin Ketone	0.553	Spike	P	0 - 33
2334860	Esfenvalerate	7.30	Spike	P	0 - 46
2334860	Ethalfuralin	3.11	Spike	P	0 - 22
2334860	Fenpropathrin	9.65	Spike	P	0 - 29
2334860	Gamma-BHC	2.21	Spike	P	0 - 17
2334860	Gamma-Chlordane	1.93	Spike	P	0 - 28
2334860	Heptachlor	2.66	Spike	P	0 - 28
2334860	Heptachlor Epoxide	0.582	Spike	P	0 - 23
2334860	Hexachlorobenzene	3.35	Spike	P	0 - 22
2334860	Kepone	3.85	Spike	P	0 - 61
2334860	Lambda-Cyhalothrin	6.64	Spike	P	0 - 52
2334860	Methoprene	2.03	Spike	P	0 - 38
2334860	Methoxychlor	12.9	Spike	P	0 - 29
2334860	MGK-264	1.96	Spike	P	0 - 41
2334860	Mirex	0.0376	Spike	P	0 - 39
2334860	Oxychlordane	10.3	Spike	P	0 - 33
2334860	Permethrin	1.45	Spike	P	0 - 39
2334860	Phenothrin	0.750	Spike	P	0 - 52
2334860	Piperonyl Butoxide	3.52	Spike	P	0 - 91
2334860	Prallethrin	4.78	Spike	P	0 - 34
2334860	Tau-Fluvalinate	9.87	Spike	P	0 - 41
2334860	Tetramethrin	1.00	Spike	P	0 - 43
2334860	Trans-Nonachlor	4.43	Spike	P	0 - 31
2334860	Triclosan Methyl	2.16	Spike	P	0 - 24
2334860	Trifluralin	6.02	Spike	P	0 - 23
2334871	PCB-1016	1.92	Spike	P	0 - 32
2334871	PCB-1260	8.86	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P415327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334212	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.72	Spike	P	0 - 30
2334212	Acetochlor	11.8	Spike	P	0 - 27
2334212	Alachlor	4.56	Spike	P	0 - 27
2334212	Ametryn	4.63	Spike	P	0 - 34
2334212	Atrazine	12.5	Spike	P	0 - 41
2334212	Atrazine Desethyl	5.33	Spike	P	0 - 38
2334212	Avobenzone	6.52	Spike	P	0 - 30
2334212	Azinphos Methyl	5.11	Spike	P	0 - 62
2334212	Azoxystrobin	11.3	Spike	P	0 - 32
2334212	Bromacil	22.8	Spike	P	0 - 30
2334212	Butylate	4.86	Spike	P	0 - 59
2334212	Caffeine	0.256	Spike	P	0 - 60
2334212	Carbophenothion	7.85	Spike	P	0 - 25
2334212	Carfentrazone Ethyl	16.0	Spike	P	0 - 26
2334212	Chlorfenapyr	13.2	Spike	P	0 - 30
2334212	Chlorpyrifos Ethyl	11.2	Spike	P	0 - 27
2334212	Chlorpyrifos Methyl	12.6	Spike	P	0 - 26
2334212	Coumaphos	14.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334212	Cyanazine	10.2	Spike	P	0 - 58
2334212	Cyprodinil	13.3	Spike	P	0 - 30
2334212	Demeton	13.4	Spike	P	0 - 25
2334212	Diazinon	9.33	Spike	P	0 - 29
2334212	Difenoconazole	13.5	Spike	P	0 - 25
2334212	Dimethenamid	6.98	Spike	P	0 - 30
2334212	Dimethomorph	7.23	Spike	P	0 - 30
2334212	Disulfoton	15.1	Spike	P	0 - 33
2334212	Dithiopyr	12.1	Spike	P	0 - 22
2334212	EPTC	2.37	Spike	P	0 - 38
2334212	Ethion	22.5	Spike	P	0 - 79
2334212	Ethoprop	10.7	Spike	P	0 - 23
2334212	Etridiazole	33.7	Spike	F	0 - 30
2334212	Fenamiphos	4.84	Spike	P	0 - 58
2334212	Fenbuconazole	15.3	Spike	P	0 - 37
2334212	Fipronil	13.3	Spike	P	0 - 33
2334212	Fipronil Desulfinyl	10.6	Spike	P	0 - 26
2334212	Fipronil Sulfide	12.5	Spike	P	0 - 37
2334212	Fipronil Sulfone	15.2	Spike	P	0 - 50
2334212	Fluazifop-P-butyl	11.9	Spike	P	0 - 24
2334212	Fludioxonil	12.7	Spike	P	0 - 26
2334212	Flumioxazin	14.6	Spike	P	0 - 37
2334212	Flutolanil	15.7	Spike	P	0 - 26
2334212	Fluxapyroxad	7.34	Spike	P	0 - 34
2334212	Fonofos	11.0	Spike	P	0 - 27
2334212	Hexazinone	8.81	Spike	P	0 - 36
2334212	Imazalil	0.629	Spike	P	0 - 65
2334212	Iprodione	13.3	Spike	P	0 - 33
2334212	Loratadine	8.45	Spike	P	0 - 30
2334212	Malathion	10.6	Spike	P	0 - 44
2334212	Metalaxyl	7.55	Spike	P	0 - 38
2334212	Metolachlor	8.35	Spike	P	0 - 36
2334212	Metribuzin	17.4	Spike	P	0 - 63
2334212	Mevinphos	16.3	Spike	P	0 - 26
2334212	Molinate	8.00	Spike	P	0 - 40
2334212	Myclobutanil	6.45	Spike	P	0 - 21
2334212	Naled	8.95	Spike	P	0 - 26
2334212	Napropamide	15.9	Spike	P	0 - 30
2334212	Norflurazon	19.2	Spike	P	0 - 24
2334212	Octinoxate	17.2	Spike	P	0 - 30
2334212	Oxadiazon	6.19	Spike	P	0 - 27
2334212	Oxybenzone	5.82	Spike	P	0 - 30
2334212	Oxyfluorfen	9.95	Spike	P	0 - 24
2334212	Parathion Ethyl	10.2	Spike	P	0 - 28
2334212	Parathion Methyl	12.8	Spike	P	0 - 27
2334212	PBDE-47	6.02	Spike	P	0 - 30
2334212	PBDE-99	5.44	Spike	P	0 - 30
2334212	Pendimethalin	11.2	Spike	P	0 - 31
2334212	Phenytoin	18.2	Spike	P	0 - 30
2334212	Phorate	13.0	Spike	P	0 - 27
2334212	Prodiamine	5.35	Spike	P	0 - 52

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334212	Prometon	10.8	Spike	P	0 - 31
2334212	Prometryn	14.8	Spike	P	0 - 28
2334212	Pronamide	12.6	Spike	P	0 - 26
2334212	Propanil	14.1	Spike	P	0 - 30
2334212	Propargite	8.46	Spike	P	0 - 30
2334212	Propiconazole	5.49	Spike	P	0 - 31
2334212	Pyraflufen Ethyl	13.2	Spike	P	0 - 30
2334212	Pyridaben	6.63	Spike	P	0 - 30
2334212	Pyriproxyfen	7.11	Spike	P	0 - 50
2334212	Simazine	10.5	Spike	P	0 - 29
2334212	Stiropfos	21.0	Spike	P	0 - 30
2334212	Sulfentrazone	14.3	Spike	P	0 - 33
2334212	Tebuconazole	9.04	Spike	P	0 - 44
2334212	Terbufos	14.0	Spike	P	0 - 29
2334212	Terbuthylazine	13.7	Spike	P	0 - 27
2334212	Thiobencarb	13.0	Spike	P	0 - 30
2334212	Tri-o-cresyl Phosphate	6.41	Spike	P	0 - 30
2334212	Triadimefon	14.0	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P415326

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334871	Chlordane	0.799	Spike	P	0 - 25
2334871	Toxaphene	2.12	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P415164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334210	Acesulfame K	1.86	Spike	P	0 - 30
2334210	AMPA	4.52	Spike	P	0 - 30
2334210	Endothall	1.89	Spike	P	0 - 30
2334210	Glufosinate	1.72	Spike	P	0 - 30
2334210	Glyphosate	2.91	Spike	P	0 - 30
2334210	Sucralose	1.27	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334060	2,4-D	8.01	Spike	P	0 - 30
2334060	2,4,5-T	1.81	Spike	P	0 - 30
2334060	Acetaminophen	2.62	Spike	P	0 - 30
2334060	Acetamiprid	5.98	Spike	P	0 - 30
2334060	Afidopyropen	4.67	Spike	P	0 - 30
2334060	Bentazon	2.69	Spike	P	0 - 30
2334060	Benzovindiflupyr	2.80	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P415176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334060	Carbamazepine	2.12	Spike	P	0 - 30
2334060	Clothianidin	8.92	Spike	P	0 - 30
2334060	Dinotefuran	0.271	Spike	P	0 - 30
2334060	Diuron	12.3	Spike	P	0 - 30
2334060	Fenuron	1.73	Spike	P	0 - 30
2334060	Fluridone	0.374	Spike	P	0 - 30
2334060	Hydrocodone	2.75	Spike	P	0 - 30
2334060	Ibuprofen	15.8	Spike	P	0 - 30
2334060	Imazapyr	4.47	Spike	P	0 - 30
2334060	Imidacloprid	13.1	Spike	P	0 - 30
2334060	Linuron	14.9	Spike	P	0 - 30
2334060	Mandestrobin	2.28	Spike	P	0 - 30
2334060	MCPP	3.78	Spike	P	0 - 30
2334060	Naproxen	13.3	Spike	P	0 - 30
2334060	Primidone	14.0	Spike	P	0 - 30
2334060	Pyraclostrobin	1.57	Spike	P	0 - 30
2334060	Silvex	0.324	Spike	P	0 - 30
2334060	Thiamethoxam	0.0599	Spike	P	0 - 30
2334060	Tolfenpyrad	0.142	Spike	P	0 - 30
2334060	Triclopyr	5.46	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334630	3-Hydroxycarbofuran	0.712	Spike	P	0 - 30
2334630	Aldicarb	10.2	Spike	P	0 - 30
2334630	Aldicarb Sulfone	1.25	Spike	P	0 - 30
2334630	Aldicarb Sulfoxide	1.27	Spike	P	0 - 30
2334630	Carbaryl	3.63	Spike	P	0 - 30
2334630	Carbofuran	13.7	Spike	P	0 - 30
2334630	Methiocarb	1.55	Spike	P	0 - 30
2334630	Methomyl	3.19	Spike	P	0 - 30
2334630	Oxamyl	3.43	Spike	P	0 - 30
2334630	Propoxur	5.83	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P415749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334356	Total Alkalinity	1.37	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P415657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334359	TDS	2.90	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P415753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334356	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P415461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334470	Organic Carbon	0.622	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2334571
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	77.9	P	30 - 160

Lab Sample ID: 2334572
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	62.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	47.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.0	P	30 - 160
EPA 8321B	Diuron-d6	67.1	P	30 - 160
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.6	P	30 - 160
EPA 8321B	Primidone-d5	82.5	P	30 - 160
EPA 8321B	Sucralose-d6	95.9	P	30 - 160

Lab Sample ID: 2334573
Field Sample ID: G3NW0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	81.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	88.8	P	30 - 160
EPA 8321B	Endothall-d6	91.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.6	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	91.6	P	30 - 160

Lab Sample ID: 2334574
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	130	F	38 - 115
EPA 8270E	Decachlorobiphenyl	105	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	104	F	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	81.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	96.4	P	30 - 97.0
EPA 8276	PCNB	98.5	P	45 - 119

Lab Sample ID: 2334575
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.1	P	20 - 200
EPA 8270E	Simazine-d10	100	P	71 - 140
EPA 8270E	Terbufos-d10	81.9	P	62 - 131
EPA 8270E	Terphenyl-d14	89.6	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A112837

Included Lab Sample IDs: 2334556, 2334558, 2334560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.0	98.4	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A112848

Included Lab Sample IDs: 2334572, 2334573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	112	P/P	60 - 160
Endothall	106	99.5	P/P	60 - 160
Glufosinate	105	101	P/P	60 - 160
Glyphosate	101	104	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112850

Included Lab Sample IDs: 2334556, 2334558, 2334560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A112858

Included Lab Sample IDs: 2334572, 2334573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	111	116	P/P	60 - 160
Sucralose	99.4	99.8	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112880

Included Lab Sample IDs: 2334576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.2	96.7	P/P	90 - 110
Antimony	98.2	99.0	P/P	90 - 110
Arsenic	95.7	95.3	P/P	90 - 110
Barium	98.7	98.4	P/P	90 - 110
Beryllium	94.2	94.6	P/P	90 - 110
Boron	97.8	97.0	P/P	90 - 110
Cadmium	98.7	98.8	P/P	90 - 110
Chromium	97.4	98.4	P/P	90 - 110
Cobalt	94.0	94.5	P/P	90 - 110
Copper	93.2	93.4	P/P	90 - 110
Lead	96.2	95.9	P/P	90 - 110
Manganese	96.8	98.4	P/P	90 - 110
Molybdenum	96.4	96.9	P/P	90 - 110
Nickel	92.2	93.5	P/P	90 - 110
Selenium	96.9	96.8	P/P	90 - 110
Silver	102	101	P/P	90 - 110
Thallium	95.3	94.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112892

Included Lab Sample IDs: 2334576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	101	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	102	99.9	P/P	90 - 110
Strontium	99.9	100	P/P	90 - 110
Tin	99.2	98.9	P/P	90 - 110
Titanium	97.7	98.2	P/P	90 - 110
Vanadium	100	101	P/P	90 - 110
Zinc	98.3	98.4	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A112944

Included Lab Sample IDs: 2334557, 2334559, 2334561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112949

Included Lab Sample IDs: 2334572, 2334573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.8	105	P/P	50 - 150
2,4,5-T	107	101	P/P	50 - 150
3-Hydroxycarbofuran	100	99.0	P/P	60 - 150
Acetaminophen	106	104	P/P	60 - 160
Acetamiprid	95.4	99.9	P/P	50 - 150
Afidopyropen	98.2	102	P/P	50 - 150
Aldicarb	114	95.7	P/P	60 - 150
Aldicarb Sulfone	98.5	101	P/P	50 - 150
Aldicarb Sulfoxide	104	105	P/P	50 - 150
Bentazon	109	107	P/P	50 - 160
Benzovindiflupyr	97.7	101	P/P	50 - 150
Carbamazepine	105	105	P/P	60 - 150
Carbaryl	106	105	P/P	60 - 150
Carbofuran	101	102	P/P	50 - 150
Clothianidin	108	109	P/P	60 - 150
Dinotefuran	104	98.4	P/P	50 - 150
Diuron	125	101	P/P	60 - 160
Fenuron	95.3	96.8	P/P	60 - 150
Fluridone	96.9	102	P/P	60 - 160
Hydrocodone	105	104	P/P	60 - 150
Ibuprofen	98.1	118	P/P	50 - 160
Imazapyr	89.4	86.1	P/P	50 - 150
Imidacloprid	91.1	86.6	P/P	60 - 150
Linuron	97.6	107	P/P	60 - 150
Mandestrobin	97.6	98.3	P/P	50 - 150
MCPP	102	86.8	P/P	50 - 150
Methiocarb	118	101	P/P	50 - 150
Methomyl	97.6	96.4	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112949

Included Lab Sample IDs: 2334572, 2334573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	93.9	86.3	P/P	50 - 160
Oxamyl	101	101	P/P	50 - 150
Primidone	102	101	P/P	60 - 150
Propoxur	99.6	96.5	P/P	50 - 150
Pyraclostrobin	99.7	98.2	P/P	60 - 150
Silvex	105	102	P/P	50 - 150
Thiamethoxam	96.8	95.1	P/P	50 - 150
Tolfenpyrad	98.6	102	P/P	60 - 150
Triclopyr	103	95.3	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112976

Included Lab Sample IDs: 2334556, 2334558, 2334560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Chloride	94.9	97.2	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110
Sulfate	98.1	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113005

Included Lab Sample IDs: 2334557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	109	99.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113007

Included Lab Sample IDs: 2334557, 2334559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113014

Included Lab Sample IDs: 2334561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113030

Included Lab Sample IDs: 2334574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.1		P	80 - 120
PCB-1260	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113053

Included Lab Sample IDs: 2334557, 2334559, 2334561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	97.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113064

Included Lab Sample IDs: 2334556, 2334558, 2334560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.6	99.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113064

Included Lab Sample IDs: 2334556, 2334558, 2334560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	98.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113072

Included Lab Sample IDs: 2334574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	98.9		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	117		P	80 - 120
Bifenthrin	109		P	80 - 120
Chlorothalonil	95.7		P	80 - 120
Cis-Nonachlor	94.7		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	91.8		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	110		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	96.2		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	96.4		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	110		P	80 - 120
Endrin	109		P	80 - 120
Endrin Aldehyde	95.7		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	111		P	80 - 120
Ethalfuralin	97.5		P	80 - 120
Fenpropathrin	115		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113072
Included Lab Sample IDs: 2334574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	92.5		P	80 - 120
Lambda-Cyhalothrin	108		P	80 - 120
Methoprene	99.5		P	80 - 120
Methoxychlor	98.6		P	80 - 120
MGK-264	97.9		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	112		P	80 - 120
Phenothrin	108		P	80 - 120
Piperonyl Butoxide	93.2		P	80 - 120
Prallethrin	100		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	110		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	99.2		P	80 - 120
Trifluralin	95.1		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113073
Included Lab Sample IDs: 2334559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113084
Included Lab Sample IDs: 2334575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.8		P	80 - 120
Alachlor	99.5		P	80 - 120
Ametryn	93.6		P	80 - 120
Atrazine	99.6		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	94.1		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	99.9		P	80 - 120
Butylate	99.1		P	80 - 120
Caffeine	105		P	80 - 120
Carbophenothion	96.8		P	80 - 120
Carfentrazone Ethyl	92.5		P	80 - 120
Chlorfenapyr	94.4		P	80 - 120
Chlorpyrifos Ethyl	98.1		P	80 - 120
Chlorpyrifos Methyl	99.2		P	80 - 120
Coumaphos	94.4		P	80 - 120
Cyanazine	95.5		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	92.5		P	80 - 120
Diazinon	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A113084
 Included Lab Sample IDs: 2334575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	93.0		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	97.9		P	80 - 120
Dithiopyr	97.2		P	80 - 120
EPTC	100		P	80 - 120
Ethion	95.7		P	80 - 120
Ethoprop	98.0		P	80 - 120
Etridiazole	96.4		P	80 - 120
Fenamiphos	97.3		P	80 - 120
Fenbuconazole	98.6		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	98.7		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	91.9		P	80 - 120
Fludioxonil	95.3		P	80 - 120
Flumioxazin	91.6		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	99.2		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	96.5		P	80 - 120
Iprodione	93.5		P	80 - 120
Loratadine	100		P	80 - 120
Malathion	94.4		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	99.9		P	80 - 120
Metribuzin	93.7		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	98.8		P	80 - 120
Myclobutanil	101		P	80 - 120
Naled	100		P	80 - 120
Napropamide	97.5		P	80 - 120
Norflurazon	98.1		P	80 - 120
Oxadiazon	98.0		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	97.9		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	98.4		P	80 - 120
Phorate	97.5		P	80 - 120
Prodiamine	111		P	80 - 120
Prometon	99.6		P	80 - 120
Prometryn	95.5		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	94.0		P	80 - 120
Propargite	95.6		P	80 - 120
Propiconazole	99.3		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113084
Included Lab Sample IDs: 2334575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	96.5		P	80 - 120
Simazine	98.4		P	80 - 120
Stirophos	97.0		P	80 - 120
Sulfentrazone	95.6		P	80 - 120
Tebuconazole	99.7		P	80 - 120
Terbufos	95.2		P	80 - 120
Terbuthylazine	92.4		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A113100
Included Lab Sample IDs: 2334574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	109		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113107
Included Lab Sample IDs: 2334561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113161
Included Lab Sample IDs: 2334575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.7		P	80 - 120
Avobenzone	101		P	80 - 120
Octinoxate	94.6		P	80 - 120
Oxybenzone	99.3		P	80 - 120
PBDE-47	94.9		P	80 - 120
PBDE-99	95.7		P	80 - 120
Tri-o-cresyl Phosphate	98.2		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113163
Included Lab Sample IDs: 2334561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113172
Included Lab Sample IDs: 2334557, 2334559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.0	98.0	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113172

Included Lab Sample IDs: 2334557, 2334559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	95.5	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	95.4					4.29	
EPA 180.1 Rev. 2.0	Turbidity	96.8					0.0	
EPA 200.7 Rev. 4.4	Calcium	106	103	104				1.52
	Iron	105	109	106	105			3.00
	Magnesium	106	109	101	103			4.21
	Potassium	103	104	105	105			0.209
	Sodium	105	101	102	105			0.357
	Strontium	103	102	103	104			1.13
	Tin	100	99.2	102	101			3.03
	Titanium	104	104	106	104			2.17
	Vanadium	97.9	99.2	102	98.6			2.43
	Zinc	103	100	103	101			2.68
EPA 200.8 Rev. 5.4	Aluminum	98.5	97.7	97.6	95.9			0.149
	Antimony	98.4	99.7	101	101			1.19
	Arsenic	100	99.0	99.5	96.6			0.577
	Barium	103	104	104	102			0.249
	Beryllium	95.9	93.7	95.3	95.3			1.57
	Boron	102	101	102	101			1.61
	Cadmium	97.8	99.4	99.2	96.8			0.182
	Chromium	96.2	97.7	99.6	97.8			1.78
	Cobalt	99.6	99.2	99.6	94.8			0.359
	Copper	97.0	93.9	94.5	90.5			0.595
	Lead	98.3	98.8	98.7	97.6			0.0892
	Manganese	96.7	98.6	98.4	97.0			0.138
	Molybdenum	98.8	102	102	97.8			0.544
	Nickel	99.1	96.5	96.5	92.8			0.0953
	Selenium	96.7	98.3	97.8	95.0			0.488
	Silver	102	102	102	101			0.749
	Thallium	99.4	101	102	99.4			0.423
EPA 300.0 Rev. 2.1	Chloride	99.2	97.6	100			0.347	
	Chloride	94.1	94.9	94.8			0.0106	
	Sulfate	99.1	97.1	97.6			0.640	
	Sulfate	97.0	94.8	95.5			0.226	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	95.6	94.6				0.948
	Ammonia-N	96.6	97.4	101				2.18
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	94.2	90.9				3.13
	Kjeldahl Nitrogen	103						5.12
	Kjeldahl Nitrogen	105						3.78
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	100	99.0				1.50
	NO2NO3-N	102	96.5	92.5				2.44
EPA 365.1 Rev. 2.0	Total-P	102	103	104				1.04
EPA 8270E	2-Ethylhexyl	103	105	102				2.72
	2,3,4,5-tetrabromobenzoate (EHTBB)							
	Acetochlor	97.6	120	107				11.8
	Alachlor	92.5	105	99.9				4.56
	Aldrin	75.8	81.3	82.2				1.08
	Alpha-BHC	106	111	117				5.15
	Alpha-Chlordane	84.3	95.8	95.2				0.618
	Ametryn	97.4	95.3	99.8				4.63
	Atrazine	100						12.5
	Atrazine Desethyl	68.9	50.7	47.0				5.33
	Avobenzone	103	124	116				6.52
	Azinphos Methyl	127	150	142				5.11

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Azoxystrobin	102	127	114		11.3
	Beta-BHC	138	135	132		2.55
	Beta-Cyfluthrin	102	139	147		5.74
	Bifenthrin	72.7	91.3	98.1		7.22
	Bromacil	84.6	106	84.2		22.8
	Butylate	67.8	57.6	54.8		4.86
	Caffeine	87.9	99.9	99.6		0.256
	Carbophenothion	100	106	98.0		7.85
	Carfentrazone Ethyl	110	118	101		16.0
	Chlorfenapyr	92.1	83.5	73.1		13.2
	Chlorothalonil	96.8	195	184		5.70
	Chlorpyrifos Ethyl	100	91.9	82.1		11.2
	Chlorpyrifos Methyl	101	100	88.5		12.6
	Cis-Nonachlor	62.0	74.5	87.0		15.4
	Coumaphos	104	102	88.3		14.4
	Cyanazine	129	141	127		10.2
	Cypermethrin	100	140	154		9.85
	Cyprodinil	96.0	104	91.0		13.3
	Dacthal	116	111	114		2.63
	DDD-p,p'	71.9	81.2	94.7		15.3
	DDE-p,p'	92.1	97.8	104		5.81
	DDT-p,p'	85.4	90.6	93.4		3.10
	Delta-BHC	140	157	156		0.499
	Deltamethrin	109	169	186		9.55
	Demeton	80.5	95.9	83.9		13.4
	Diazinon	95.6	122	111		9.33
	Dichlobenil	105	90.4	92.0		1.82
	Dicofol	85.9	81.9	87.4		6.50
	Dieldrin	92.3	96.7	102		4.48
	Difenoconazole	132	169	148		13.5
	Dimethenamid	78.7	98.2	87.7		6.98
	Dimethomorph	92.8	115	107		7.23
	Disulfoton	81.8	97.0	83.4		15.1
	Dithiopyr	88.0	77.4	68.0		12.1
	Endosulfan I	89.0	107	103		3.69
	Endosulfan II	99.4	123	120		1.84
	Endosulfan Sulfate	106	108	108		0.182
	Endrin	82.8	95.4	95.6		0.243
	Endrin Aldehyde	85.1	86.8	89.7		3.32
	Endrin Ketone	118	112	112		0.553
	EPTC	66.5	52.7	51.4		2.37
	Esfenvalerate	91.9	134	144		7.30
	Ethalfuralin	90.3	97.0	100		3.11
	Ethion	96.3	85.0	67.8		22.5
	Ethoprop	87.9	99.3	89.2		10.7
	Etridiazole	69.1	72.1	51.3		33.7
	Fenamiphos	101	83.2	79.2		4.84
	Fenbuconazole	94.8	116	99.4		15.3
	Fenpropathrin	90.8	117	129		9.65
	Fipronil	99.1	117	103		13.3
	Fipronil Desulfinyl	106	114	99.9		10.6
	Fipronil Sulfide	87.4	92.4	81.5		12.5
	Fipronil Sulfone	93.0	92.1	76.2		15.2
	Fluazifop-P-butyl	98.1	108	95.7		11.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fludioxonil	93.1	115	101			12.7
	Flumioxazin	142	191	165			14.6
	Flutolanil	95.3	95.1	81.3			15.7
	Fluxapyroxad	77.7	94.9	88.2			7.34
	Fonofos	90.5	92.4	82.8			11.0
	Gamma-BHC	121	121	118			2.21
	Gamma-Chlordane	87.1	92.4	94.2			1.93
	Heptachlor	78.9	83.6	81.4			2.66
	Heptachlor Epoxide	92.6	103	102			0.582
	Hexachlorobenzene	81.5	88.7	91.7			3.35
	Hexazinone	103	101	92.3			8.81
	Imazalil	70.4	92.8	92.2			0.629
	Iprodione	106	119	104			13.3
	Kepone	96.5					3.85
	Lambda-Cyhalothrin	79.7	112	120			6.64
	Loratadine	87.9	102	94.0			8.45
	Malathion	105	105	94.1			10.6
	Metalaxyl	95.4	98.1	90.9			7.55
	Methoprene	71.0	91.9	90.0			2.03
	Methoxychlor	100	99.5	113			12.9
	Metolachlor	93.2	107	98.4			8.35
	Metribuzin	94.6	115	96.9			17.4
	Mevinphos	83.2	95.4	81.1			16.3
	MGK-264	107	111	109			1.96
	Mirex	64.9	79.0	79.0			0.0376
	Molinate	75.8	77.2	71.3			8.00
	Myclobutanil	95.6	102	93.2			6.45
	Naled	113	116	106			8.95
	Napropamide	85.7	87.9	74.9			15.9
	Norflurazon	92.9	102	84.0			19.2
	Octinoxate	206	81.9	58.2			17.2
	Oxadiazon	80.4					6.19
	Oxybenzone	78.7	94.8	89.4			5.82
	Oxychlordane	92.8	89.3	99.0			10.3
	Oxyfluorfen	129	152	138			9.95
	Parathion Ethyl	105	104	93.7			10.2
	Parathion Methyl	114	124	109			12.8
	PBDE-47	90.9	96.9	91.2			6.02
	PBDE-99	92.9	95.6	90.5			5.44
	PCB-1016	96.4	104	102			1.92
	PCB-1260	107	110	101			8.86
	Pendimethalin	106	118	105			11.2
	Permethrin	95.7	132	133			1.45
	Phenothrin	77.7	115	114			0.750
	Phenytoin	64.9	57.8	48.2			18.2
	Phorate	81.4	92.2	80.9			13.0
	Piperonyl Butoxide	117	124	128			3.52
	Prallethrin	99.9	105	110			4.78
	Prodiamine	56.4	83.5	79.2			5.35
	Prometon	71.8	76.5	68.7			10.8
	Prometryn	89.2	78.8	68.0			14.8
	Pronamide	93.0	115	102			12.6
	Propanil	93.6	101	87.8			14.1
	Propargite	92.9	83.6	76.8			8.46

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propiconazole	90.0				5.49
	Pyraflufen Ethyl	91.4	97.2	85.2		13.2
	Pyridaben	96.9	103	96.5		6.63
	Pyriproxyfen	93.1	93.6	87.2		7.11
	Simazine	82.7	91.4	82.3		10.5
	Stirophos	97.7	46.4	37.6		21.0
	Sulfentrazone	93.8	112	97.4		14.3
	Tau-Fluvalinate	74.8	109	120		9.87
	Tebuconazole	77.8	89.2	76.6		9.04
	Terbufos	106	120	104		14.0
	Terbutylazine	95.6	118	102		13.7
	Tetramethrin	124	158	157		1.00
	Thiobencarb	81.7	91.4	80.3		13.0
	Trans-Nonachlor	81.9	90.3	94.4		4.43
	Tri-o-cresyl Phosphate	92.5	102	95.3		6.41
	Triadimefon	92.1	98.5	85.6		14.0
	Triclosan Methyl	86.4	94.6	96.6		2.16
	Trifluralin	87.1	91.1	96.7		6.02
EPA 8276	Chlordane	104	108	109		0.799
	Toxaphene	132	154	158		2.12
EPA 8321B	2,4-D	73.3	96.5	89.1		8.01
	2,4,5-T	52.4	57.6	56.6		1.81
	3-Hydroxycarbofuran	83.4	86.0	85.4		0.712
	Acesulfame K	93.0	89.0	90.7		1.86
	Acetaminophen	88.2	99.5	102		2.62
	Acetamiprid	78.2	83.7	78.9		5.98
	Afidopyropen	71.3	76.6	73.1		4.67
	Aldicarb	71.5	72.5	65.4		10.2
	Aldicarb Sulfone	88.4	99.5	98.3		1.25
	Aldicarb Sulfoxide	87.6	89.9	88.7		1.27
	AMPA	111	89.8	85.9		4.52
	Bentazon	81.5	81.7	79.2		2.69
	Benzovindiflupyr	83.8	80.7	83.0		2.80
	Carbamazepine	95.2	94.8	96.8		2.12
	Carbaryl	82.0	85.0	88.2		3.63
	Carbofuran	81.6	81.5	71.0		13.7
	Clothianidin	95.7	107	98.0		8.92
	Dinotefuran	94.9	101	101		0.271
	Diuron	81.7	90.1	79.6		12.3
	Endothall	96.4	99.8	98.0		1.89
	Fenuron	89.8	89.5	88.0		1.73
	Fluridone	81.4	87.2	86.8		0.374
	Glufosinate	100	88.3	86.8		1.72
	Glyphosate	106	95.9	93.1		2.91
	Hydrocodone	90.9	91.4	94.0		2.75
	Ibuprofen	89.3	89.6	76.4		15.8
	Imazapyr	96.5	93.4	98.0		4.47
	Imidacloprid	94.6	88.4	101		13.1
	Linuron	70.8	84.2	72.5		14.9
	Mandestrobin	83.4	83.5	81.6		2.28
	MCPP	75.1	80.9	84.0		3.78
	Methiocarb	93.4	88.3	87.0		1.55
	Methomyl	83.2	87.3	84.5		3.19
	Naproxen	56.6	103	89.8		13.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Oxamyl	89.2	92.3	89.2		3.43
	Primidone	93.5	98.3	85.4		14.0
	Propoxur	73.6	67.9	72.0		5.83
	Pyraclostrobin	74.0	80.5	79.3		1.57
	Silvex	55.4	61.9	61.7		0.324
	Sucralose	97.1	95.6	97.5		1.27
	Thiamethoxam	87.8	94.6	94.5		0.0599
	Tolfenpyrad	49.1	54.2	54.3		0.142
	Triclopyr	59.9	65.1	68.7		5.46
SM 2320 B-2011	Total Alkalinity	101			1.37	
SM 2540 C-2011	TDS				2.90	
SM 4500-F- C-2011	Fluoride	96.9	102	102		0.0
SM 5310 B-2011	Organic Carbon	97.4	98.0	98.8		0.622

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2334556, 2334558, 2334560
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2334556, 2334558, 2334560
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2334576
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2334576
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2334556, 2334558, 2334560
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2334556, 2334558, 2334560
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2334557, 2334559, 2334561
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2334557, 2334559, 2334561
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2334557, 2334559, 2334561
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2334557, 2334559, 2334561
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2334575
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2334574
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2334575
EPA 8270E	PCBs in water matrices by GC/MS/MS	2334574
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2334574
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2334571
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2334572, 2334573
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2334556, 2334558, 2334560
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2334576
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2334556, 2334558, 2334560
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2334556, 2334558, 2334560
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2334556, 2334558, 2334560
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2334557, 2334559, 2334561

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/15/2022			06/15/2022 11:31	Samantha L Bates	2334556, 2334558
	06/15/2022			06/15/2022 11:32	Samantha L Bates	2334560
EPA 180.1 Rev. 2.0	06/15/2022			06/15/2022 15:02	Khloe J Berg	2334556
	06/15/2022			06/15/2022 15:04	Khloe J Berg	2334558, 2334560
EPA 200.7 Rev. 4.4	06/15/2022	06/16/2022 09:36	Megan Whitefoot	06/16/2022 21:56	McKinley C Carter	2334576
EPA 200.8 Rev. 5.4	06/15/2022	06/16/2022 09:36	Megan Whitefoot	06/16/2022 20:37	Alexander Thompson	2334576
EPA 300.0 Rev. 2.1	06/15/2022			06/21/2022 21:46	Anna M. Plaviak	2334556
	06/15/2022			06/24/2022 12:44	Anna M. Plaviak	2334560
	06/15/2022			06/24/2022 13:44	Anna M. Plaviak	2334558
EPA 350.1 Rev. 2.0	06/15/2022			06/23/2022 11:13	Ping Hua	2334557
	06/15/2022			06/23/2022 11:15	Ping Hua	2334559
	06/15/2022			06/27/2022 13:10	Ping Hua	2334561
EPA 351.2 Rev. 2.0	06/15/2022	06/22/2022 15:49	Samantha L Bates	06/23/2022 12:52	Alexandra J Mattheus	2334557
	06/15/2022	06/23/2022 16:39	Samantha L Bates	06/24/2022 16:00	Alexandra J Mattheus	2334559
	06/15/2022	06/28/2022 15:50	Samantha L Bates	06/29/2022 11:24	Alexandra J Mattheus	2334561
EPA 353.2 Rev. 2.0	06/15/2022			06/22/2022 17:38	Touraj Touran	2334561
	06/15/2022			06/28/2022 17:55	Touraj Touran	2334557
	06/15/2022			06/28/2022 18:00	Touraj Touran	2334559
EPA 365.1 Rev. 2.0	06/15/2022	06/23/2022 14:45	Simonne.V. Calhoun	06/24/2022 14:22	James L Waggeberby	2334559
	06/15/2022	06/23/2022 14:45	Simonne.V. Calhoun	06/24/2022 14:25	James L Waggeberby	2334557
	06/15/2022	06/23/2022 14:45	Simonne.V. Calhoun	06/24/2022 14:26	James L Waggeberby	2334561
EPA 8270E	06/15/2022	06/17/2022 08:00	Rasheda Ghaffari	06/24/2022 02:42	Arthur Maknenko	2334574
	06/15/2022	06/17/2022 08:00	Rasheda Ghaffari	06/24/2022 04:03	Michael Poppell	2334574
	06/15/2022	06/20/2022 08:00	Rasheda Ghaffari	06/24/2022 18:59	Michael Poppell	2334575
	06/15/2022	06/20/2022 08:00	Rasheda Ghaffari	06/28/2022 16:26	Lipi Saha	2334575
EPA 8276	06/15/2022	06/17/2022 08:00	Rasheda Ghaffari	06/25/2022 04:42	Julie Wi	2334574
EPA 8321B	06/15/2022	06/15/2022 12:00	Umesh Chiluwal	06/15/2022 13:35	Umesh Chiluwal	2334572
	06/15/2022	06/15/2022 12:00	Umesh Chiluwal	06/15/2022 13:48	Umesh Chiluwal	2334573
	06/15/2022	06/15/2022 12:00	Umesh Chiluwal	06/15/2022 20:27	Umesh Chiluwal	2334572
	06/15/2022	06/15/2022 12:00	Umesh Chiluwal	06/15/2022 20:42	Umesh Chiluwal	2334573
	06/15/2022	06/16/2022 08:00	June Rhew	06/20/2022 23:47	Juyoung Kim	2334572
	06/15/2022	06/16/2022 08:00	June Rhew	06/21/2022 00:08	Juyoung Kim	2334573
	06/15/2022	06/20/2022 09:00	June Rhew	06/21/2022 11:14	Juyoung Kim	2334571
SM 2320 B-2011	06/15/2022			06/23/2022 08:06	Dale L. Simmons	2334556
	06/15/2022			06/23/2022 08:17	Dale L. Simmons	2334558
	06/15/2022			06/23/2022 08:31	Dale L. Simmons	2334560
SM 2340 B-2011	06/15/2022			06/16/2022 21:56	McKinley C Carter	2334576
SM 2540 C-2011	06/15/2022			06/17/2022 14:36	Yijie Li	2334556, 2334558, 2334560
SM 2540 D-2011	06/15/2022			06/17/2022 14:36	Yijie Li	2334556, 2334558, 2334560
SM 4500-F- C-2011	06/15/2022			06/23/2022 08:06	Dale L. Simmons	2334556

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	06/15/2022			06/23/2022 08:17	Dale L. Simmons	2334558
	06/15/2022			06/23/2022 08:31	Dale L. Simmons	2334560
SM 5310 B-2011	06/15/2022			06/20/2022 21:50	Khloe J Berg	2334557
	06/15/2022			06/20/2022 22:04	Khloe J Berg	2334559
	06/15/2022			06/20/2022 22:23	Khloe J Berg	2334561